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L6	445	703/2.ccls. and @pd>="20080201"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/12/04 06:48
L7	23	(flow adj induced adj crystal\$7)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/12/04 07:40
L8	1	(flow adj induced adj crystal\$7)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/12/04 07:45
L9	2	(flow adj induced adj crystal\$7) and (free adj energy)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/12/04 07:46
L10	17	fic and (free adj energy)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/12/04 07:47


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**Effect of mild hypothermia on ischemia-induced release of neurotransmitters and free fatty acids in ...** - [► ahajournals.org](#) [PDF]

R Busto, MY Globus, WD Dietrich, E Martinez, I ... - Stroke, 1989 - Am Heart Assoc  
 ... does not have an effect on the magnitude of **flow** reduction **induced** by 20 ... Cortical and striatal **free** fatty acid levels of the different experimental ...

Cited by 611 - Related articles - Web Search - All 4 versions

**Dynamic coupling between stress and composition in polymer** - [► inria.fr](#) [PDF]

M Doi, A Onuki - J. Phys. II France, 1992 - edpsciences.org  
 ... minimizing the **free energy** in nonequilibrium states [3, 4]. Page 2. 1632 JOURNAL DE PHYSIQUE II N°8 Experimental studies of the **flow-induced** polymer migration ...

Cited by 157 - Related articles - Web Search - All 8 versions

**Extensional flow induced miscibility in a polymer blend**

JD Katsaros, MF Malone, HH Winter - Polymer Bulletin, 1986 - Springer  
 ... A thermodynamic approach has been used to interpret **flow induced** phase transitions in ... "**free energy**" elevation of dilute solutions in a **flow** field based on ...

Cited by 24 - Related articles - Web Search - All 2 versions

[CITATION] **Mechanisms of flow induced crystallization**

AJ McHugh - Polymer Engineering and Science, 1982

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**A continuum model for flow-induced crystallization of polymer melts**

AK Doufas, IS Dairanieh, AJ McHugh - Journal of Rheology, 1999 - link.aip.org  
 ... **Flow-induced** crystallization (FIC) is an important phenomenon in ... growth habits that occur under **flow** orientation, quantitative ... in the bulk **free energy** term of ...

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**Flow-induced mixing, demixing, and phase transitions in polymeric fluids**

RG Larson - Rheologica Acta, 1992 - Springer  
 ... in cone-and-plate **flow**, we need an expression for the **free energy** density  $f$  ... Larson,  
**Flow-induced** mixing, demixing, and phase transitions in polymeric fluids 503 ...

Cited by 93 - Related articles - Web Search - BL Direct - All 2 versions

[CITATION] **Flow-induced crystallization of linear polyethylene above its normal melting point**

V Tan, CG Gogos - Polymer Engineering and Science, 1976

Cited by 21 - Related articles - Web Search

[CITATION] **Microrheological Modeling of Flow-Induced Crystallization**

S Coppola, N Grizzuti, PL Maffettone - MACROMOLECULES, 2001 - ACS AMERICAN CHEMICAL SOCIETY

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**Modeling of the rheology and flow-induced concentration changes in polymer solutions**

VG Mavrantzas, AN Beris - Physical Review Letters, 1992 - APS  
 ... in an effort to describe stress-**induced** concentration [4 ... the Euler equations for ideal fluid **flow** in a ... M pu, and a general internal **free-energy** density,  $he(\pi)$  ...


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### A continuum model for flow-induced crystallization of polymer melts

AK Doufas, IS Dairanieh, AJ McHugh - Journal of Rheology, 1999 - link.aip.org

... **Flow-induced** crystallization (**FIC**) is an important phenomenon in ... growth habits that occur under **flow** orientation, quantitative ... in the bulk **free energy** term of ...

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### [citation] Microrheological Modeling of Flow-Induced Crystallization

S Coppola, N Grizzuti, PL Maffettone - MACROMOLECULES, 2001 - ACS AMERICAN CHEMICAL SOCIETY

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### A continuum model for the dynamics of flow-induced crystallization

AC Bushman, AJ McHugh - Journal of Polymer Science Part B Polymer Physics, 1996 - doi.wiley.com

... allows comparison to published data for **flow-in-**duced ... **STRAIN-INDUCED CRYSTALLIZATION**  
 Several authors have derived **free-energy** expressions for the quiescent ...

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### ... between kinetics and rheological parameters in the flow-induced crystallization of thermoplastic ...

S Acierno, S Coppola, N Grizzuti, PL Maffettone - MACROMOLECULAR SYMPOSIA, 2002 - doi.wiley.com

... modeling of the **FIC**. Within this framework, dumbbell-like models have been initially used to calculate a **flow-induced** change in the **free energy** of the ...

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### Simulation of melt spinning including flow-induced crystallization Part I. Model development and ...

AK Doufas, AJ McHugh, C Miller - Journal of Non-Newtonian Fluid Mechanics, 2000 - Elsevier

... is based on Flory's strain-induced crystallization model ... complex boundary conditions (air drag, **free** surface, heat ... Thus the fiber **flow** can be modeled with a 1 ...

Cited by 61 - [Related articles](#) - [Web Search](#) - All 5 versions

### Effect of molecular weight on the flow-induced crystallization of isotactic poly (1-butene)

S Acierno, B Palomba, HH Winter, N Grizzuti - Rheologica Acta, 2003 - Springer

... **Flow-Induced** Crystallization (**FIC**) is the common term used to indicate ... of the melt **free energy**. ... of the first MW chains should enhance the **flow-induced** nucle- ation ...

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### A model for post-flow induced crystallization: General equations and predictions

R Zheng, PK Kennedy - Journal of Rheology, 2004 - link.aip.org

... The phenomenon is usually called **flow-induced** crystallization (**FIC** ... explains the exact driving force for **FIC** and how ... phase is in a lower **free energy** state than ...

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### Effects of the degree of undercooling on flow induced crystallization in polymer melts

S Coppola, L Balzano, E Gioffredi, PL Maffettone, ... - Polymer, 2004 - Elsevier

... One of the first models of **FIC** was proposed by McHugh [15]. ... In particular the **free energy** jump included a **flow-induced** term, which was calculated by ...

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often referred to as **flow-induced crystallization (FIC)**. .... be concluded that also the **flow-induced free energy** term is ...

linkinghub.elsevier.com/retrieve/pii/S0032386104002733 - Similar pages

by S Coppola - 2004 - Cited by 8 - Related articles - All 4 versions

### Polymer Testing : Influence of flow on the global crystallization ...

In most polymer **flow induced** crystallization (**FIC**) experiments, ... where  $\Delta G$  is the **free energy** change of the melt and  $\Delta G_f$  is the **flow-induced free energy** ...

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by A Godara - 2006 - Related articles

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usually know as **Flow-Induced Crystallization (FIC)**. It is generally accepted that the main action of the ... conditions the **flow-induced excess free energy** ...

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### Flow-induced crystallization of polymer: theory and experiments

polydisperse systems under flow conditions. Theoretical predictive models for **FIC** usually rely ... conditions the **flow-induced excess free energy** ...

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### Microrheological modeling of flow-induced crystallization

The problem of **flow-induced** crystallization (**FIC**) of polymer melts is addressed ... (DE-IAA) is used to calculate the **flow-induced** change of **free energy**. ...

cat.inist.fr/?aModele=afficheN&cpsid=1037066 - Similar pages

by S COPPOLA - 2001 - Cited by 35 - Related articles - All 4 versions

### Coupling between kinetics and rheological parameters in the flow ...

**Flow Induced** Crystallization (**FIC**) is the common term to indicate the ... which acts on both the polymer relaxation time and the **free energy** jump between ...

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### A continuum model for the dynamics of flow-induced crystallization

**Flow-induced** crystallization (**FIC**) plays a central. role in polymer processing. ....

expression for the Helmholtz **free energy**.. Mixed **Flow** Kinematics ...

doi.wiley.com/10.1002/(SICI)1099-0488(199610)34:14%3C2393::AID-POLB9%3E3.3.CO;2-

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### Crystallization in Mixed Shear/Extensional Flows

the **FIC**. Within this framework, dumbbell-like models have been initially used to calculate a **flow-induced** change in the **free energy** of the amorphous phase, ...

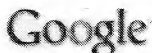
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### Crystalline spherulitic growth kinetics during shear for linear ...

This means that the **flow-induced** change of **free energy** decreases as the ... the best explanation for **FIC** behavior during the crystallization growth step. ...

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**Flow-induced phase separation in polymer solutions**

The effect of **flow-induced** chain deformation on the polymer-solvent interaction energy .... This results in the following simple form for the **free energy**: ...  
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 by K de Moel - 1998 - Cited by 1 - Related articles - All 17 versions

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 by J MUKHERJEE - 2004 - Cited by 1 - Related articles - All 2 versions

**Flow-induced Crystallization in Polymer Systems - Google Books Result**

by Robert L. Miller - 1979 - Science - 370 pages  
 The **free energy** of formation of the critical size nucleus includes an additional ... While the hydrodynamics of **flow-induced** crystallizations are not well ...  
[books.google.com/books?isbn=0677125402...](http://books.google.com/books?isbn=0677125402...)

**Flow-induced crystallization of polymer: theory and experiments**

using the so-called Independent Alignment Approximation (IAA) approximation. In this, conditions the **flow-induced** excess **free energy** ...  
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is the quiescent **free energy** change at the crystallization temperature and DG. f. the **flow-induced free energy** change of the melt phase. ...  
[linkinghub.elsevier.com/retrieve/pii/S0032386104002733](http://linkinghub.elsevier.com/retrieve/pii/S0032386104002733) - Similar pages  
 by S Coppola - 2004 - Cited by 8 - Related articles

**A continuum model for the dynamics of flow-induced crystallization**

Helmholtz **Free Energy**: Crystallizing System. Our physical model for **flow-induced** crystallization, is closely related to that of Gaylord and Lohse2'V2\* ...  
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**An Investigation of Shear-Induced Mixing in the PSAN/PMMA Blend ...**

To explain these phenomena, it was proposed [3, 4] that the **free energy** ... that **flow-induced** mixing can, too, be predicted using the stored **energy** concept. ...  
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